

PECS-VI: International Symposium on Photonic and Electromagnetic Crystal Structures

**Conference Program June 19-24, 2005 Capsis Beach Hotel
Aghia Pelaghia, Crete, Greece**

All sessions will be held in the Capsis Beach Hotel, Marika Capsis Room. The Invited Talks will have 20 minutes for presentations and 10 minutes for discussion. The Contributed Talks will have 10 minutes for presentation and 5 minutes for discussion. The Posters will be displayed during the afternoon sessions. We will present awards for the best four posters at the end of the symposium on Friday, June 24.

Sunday, June 19, 2005

[2:00-5:00 Pre-registration](#)

[7:00-9:00 Dinner](#)

[6:00-9:00 Pre-registration](#)

[9:00-10:30 Welcome reception](#)

Monday, June 20, 2005

8:00 Registration

8:45 Welcome

Morning Session Chairperson: C. M. Soukoulis

- 9:00 **Invited:** Sajeev John, University of Toronto, *Photonic band gap materials: Engineering the fundamental properties of light*
- 9:30 **Invited:** Eli Yablonovitch, UCLA, *Inverse design problems in electromagnetics and nano-photonics*
- 10:00 **Invited:** Susumu Noda, Kyoto University, *Recent progresses in 2D photonic crystal slabs—ultrahigh-Q cavities, Nano-devices, and spontaneous emission control*
- 10:30 **Invited:** John Pendry, Imperial College, *Time reversal in metamaterials and photonic crystals*
- 11:00 Coffee Break**
- Chairperson: E. Ozbay
- 11:30 **Invited:** Francisco García-Vidal, Universidad Autónoma de Madrid, *Metal surfaces with holes in them: New plasmonic metamaterials*
- 12:00 **Invited:** Che Ting Chan, Hong Kong University of Science and Technology, *Some subtle details of imagining using a negative refractive medium*
- 12:30 **Invited:** Francisco Garcia de Abajo, Donostia International Physics Center and Centro Mixto CSIC-UPV/EHU, *Lattice, site, and plasmon resonances in structured metal films*
- 13:00 **Contributed:** Ole Sigmund, Technical University of Denmark, *Topology optimized building blocks for integrated photonics*
- 13:15 **Contributed:** Sergei Mingaleev, University of Central Florida, *Analytical examination of Fano resonances in photonic crystal devices*
- 13:30 Lunch and discussions

Afternoon Session

15:30 Poster Presentation Session A

Evening Session Chairperson: S. Noda

- 17:15 **Invited:** Shawn Lin, Rensselaer Polytechnic Institute, *3D metallic photonic-crystals and its energy consequences*
- 17:45 **Contributed:** Ihab El-Kady, Sandia National Laboratories, *Thermal emission from an active metallic photonic crystal*
- 18:00 **Contributed:** Thomas Zentgraf, Max Planck Institute for Solid State Research, *Ultrafast particle plasmon dynamics of waveguide-plasmon polaritons*
- 18:15 **Contributed:** Laurens Kuipers, FOM Institute for Atomic and Molecular Physics, *Modifying the properties of plasmonic crystals through engineering of the primitive unit cell*
- 18:30 **Contributed:** Jean Pol Vigneron, Univ. Notre-Dame de la Paix, *New photonic structures in biology*
- 18:45 **Contributed:** Thomas Fuhrmann-Lieker, University of Kassel, *Light-emitting biological photonic crystals*
- 19:00 **Invited:** Yuri Kivshar, Australian National University, *Optically-induced photonic lattices: An analog of nonlinear photonic crystals*
- 19:30 Dinner**

Tuesday, June 21, 2005

Morning Session Chairperson: A. Lagendijk

- 9:00 **Invited:** Steve Johnson, MIT, *Anomalous Loss and Propagation in Photonic-crystal Waveguides*
- 9:30 **Invited:** Thomas Krauss, University of St. Andrews, *Slow light—opportunity for photonic crystals?*
- 10:00 **Invited:** Yuri Vlasov, IBM Watson Research Center, *Harnessing the slow light in photonic crystal waveguides*
- 10:30 **Invited:** Claude Weisbusch, Ecole Polytechnique, *High efficiency LEDs by photonic crystal-assisted extraction*
- 11:00 Coffee Break**
- Chairperson: H. Benisty**
- 11:30 **Invited:** Pierre Petroff, University of California—Santa Barbara, *Tuning conditions between quantum dots and photonic crystals*
- 12:00 **Invited:** Willem Vos, University of Twente, *Control of spontaneous emission by photonic crystals*
- 12:30 **Invited:** Kiyoshi Asakawa, University of Tsukuba, *Interaction of photonic crystals and quantum dots: Killer application to integrated ultra-fast all-optical signal processors*
- 13:00 **Contributed:** Christopher Sauvan, Universite Paris Sud, *Tuning holes in two-dimensional photonic crystal microcavities: A predictive Fabry-Perot model*
- 13:15 **Contributed:** Riccardo Sapienza, European Laboratory for Nonlinear Spectroscopy and INFM, *Optical analogue of electronic Bloch oscillations*
- 13:30 Lunch and discussions

Afternoon Session

- 15:30 Poster Presentation Session B

Evening Session Chairperson: C. Weisbusch

- 17:15 **Invited:** Toshihiko Baba, Okohama National University, *Slow light engineering by chirped photonic crystal waveguides*
- 17:45 **Invited:** Henri Benisty, Institut d'Optique, *2D PCs for spontaneous emission and mode control, and vice-versa*
- 18:15 **Invited:** Kurt Busch, Universität Karlsruhe, *The Wannier function approach to photonic crystal circuits*
- 18:45 **Invited:** Masaya Notomi, NTT Basic Research Laboratories, *Dynamic nonlinear control of photonic crystal resonator-waveguide coupled systems*
- 19:15 **Contributed:** Manfred Eich, Hamburg University of Technology, *Electrooptically tunable photonic crystal*
- 19:30 Dinner**

Wednesday, June 22, 2005

Morning Session Chairperson: W. Vos

- 9:00 **Invited:** Ad Lagendijk, University of Twente, *Does disorder hurt in photonic crystals?*
- 9:30 **Invited:** Vahid Sandoghdar, Swiss Federal Institute of Technology (ETH), *Near-field imaging and manipulation of light in photonic crystals*
- 10:00 **Invited:** Diederik Wiersma, European Laboratory for Non-linear Spectroscopy (LENS), *Controlling photonic materials by liquid crystal infiltration*
- 10:30 **Contributed:** Hans Kroha, Universität Bonn, *Anderson localization of classical waves in disordered photonic crystals with absorption or gain*
- 10:45 **Contributed:** Juan José Saenz, Universidad Autónoma de Madrid, *Unusually strong optical interactions between particles in a waveguide*
- 11:00 Coffee Break**
- Chairperson: T. Baba**
- 11:30 **Invited:** Sanhui Fan, Stanford University, *Dynamic photonic crystals*
- 12:00 **Contributed:** Dimitri Chigrin, University of Bonn, *Wave-front in photonic crystals: Influence of the form-anisotropy*
- 12:15 **Contributed:** Sun-Kyung Kim, KAIST, *How to get decimated spectrum from a photonic crystal single-cell cavity with Γ - k directional waveguides*
- 12:30 **Contributed:** Tetsuyuki Ochiai, National Institute for Materials Science, *Theory of unconventional Smith-Purcell radiation involving photonic crystal*
- 12:45 **Contributed:** Min Qiu, Royal Institute of Technology (KTH), *A compact design of in-plane channel drop filter using degenerate modes in 2D photonic crystal slabs*
- 13:00 **Contributed:** Oskar Painter, California Institute of Technology, *Semiconductor photonic crystal and microdisk quantum dot devices for chip-based cavity QED*
- 13:15 **Contributed:** Virginie Lousse, Stanford University, *Corpuscular description of chirped photonic crystal modes*
- 13:30 Lunch and discussions

Afternoon Session

- 15:30 Poster Presentation Session C

Evening Session Chairperson: E. Yablonovitch

- 17:15 **Invited:** Anthony Holden, Imperial College, *Some real applications for negative materials*
- 18:00 **Contributed:** Irina Puscasu, Ion Optics Inc., *Plasmonic photonic crystals for a new generation of infrared sources and spectroscopic sensors*
- 18:15 **Contributed:** Kohei Okamoto, Canon Inc., *Photonic crystal sensor with micro flow channels*
- 18:30 **Invited:** Ralf Wehrspohn, University of Paderborn, *Applications of silicon-based photonic crystals*
- 19:00 **Contributed:** Francisco Mesequer, Universidad Politécnica de Valencia, *Photonic crystals for applications in solar energy conversion*
- 19:15 **Contributed:** Rana Biswas, Iowa State University and Ames Laboratory, *Subwavelength metollo-dielectric photonic crystals*
- 20:00 Conference Dinner**

Thursday, June 23, 2005

Morning Session Chairperson: M. Tanielian

- 9:00 **Invited:** Ekmel Ozbay, Bilkent University, *Development of left-handed composite materials and negative refracting photonic crystals with subwavelength focusing*
- 9:30 **Invited:** David Smith, Duke University,
- 10:00 **Invited:** Elefterios Economou, Research Center of Crete, *Periodic effective medium description of LHM*
- 10:30 **Contributed:** Mike Wiltshire, Imperial College, *Sub-wavelength RF imaging with magnetic metamaterials*
- 10:45 **Contributed:** Satoshi Tomita, RIKEN, *Ferromagnetic-metal nanocomposite films as a possible candidate for left-handed materials*
- 11:00 Coffee Break**
- Chairperson: J. Pendry**
- 11:30 **Invited:** Stefan Linden, Institut für Nanotechnologie, *Towards left-handed metamaterials at optical frequencies*
- 12:00 **Invited:** Willie Padilla, Los Alamos National Laboratory, *Infrared spectroscopy and ellipsometry of magnetic metamaterials*
- 12:30 **Invited:** Vladimir Shalaev, Purdue University, *Negative refraction metamaterials in optics*
- 13:00 **Invited:** Sergei Tretyakov, Helsinki University of Technology, *On possible realizations of backward-wave regime and negative refraction in chiral composites*
- 13:30 Lunch and discussions

Afternoon Session

- 15:30 Poster Presentation Session D

Evening Session Chairperson: T. Krauss

- 17:15 **Contributed:** Kai-Ming Ho, Iowa State University and Ames Laboratory, *A simple model for the thermal radiation spectrum of a system with non-uniform temperature*
- 17:30 **Contributed:** Daniel Meisel, Forschungszentrum Karlsruhe, *Holographic lithography of Yablonovite-like photonic crystals*
- 17:45 **Contributed:** Jeff King, Georgia Institute of Technology, *Infiltration and inversion of holographically-defined polymer photonic crystal templates using atomic layer deposition*
- 18:00 **Contributed:** Georg von Freymann, Universität Karlsruhe, *Direct laser writing of three-dimensional photonic crystals in high index of refraction chalcogenide glasses*
- 18:15 **Contributed:** Emmanuel Bourelle, Japan Aviation Electronics Industry, Ltd., *New process technique for photonic crystals using gas cluster ion beam*
- 18:30 **Contributed:** Al Qun Liu, Nanyang Technological University, *Deep submicron two-dimensional photonic crystal fabrication*
- 18:45 **Contributed:** Andrei Lavrinenko, Technical University of Denmark, *Coupled periodic waveguides: From basic idea to efficient photonics components*
- 19:00 **Invited:** Diedier Lippens, Université de Lille, *Left-handed electromagnetism at terahertz frequencies*
- 19:30 Dinner**

Friday, June 24, 2005

Morning Session Chairperson: S. John

- 9:00 **Invited:** John Page, University of Manitoba, *Negative refraction and focusing of sound in phononic crystals*
- 9:30 **Invited:** Sailing He, Zhejiang University, *Some studies of subwavelength focusing and open cavity achieved with photonic crystals of negative refraction*
- 10:00 **Contributed:** Benoit Lombardet, EPFL, *A Bloch wave model that describes the dispersive effects in photonic crystals*
- 10:15 **Contributed:** Stavroula Foteinopoulou, University of Namur, *Anomalous refractive effects at the interface of two-dimensional PCs*
- 10:30 **Invited:** Clivia Sotomayor Torres, University College Cork, *3D Opal Photonic Crystals Grown on Patterned Silicon Platforms*
- 11:00 Coffee Break**
- Chairperson: R. Biswas**
- 11:30 **Invited:** Yong-Hee Lee, KAIST, *All-fiber-optic photonic crystal light emitter*
- 12:00 **Contributed:** Rob Engelen, FOM Institute for Atomic and Molecular Physics, *Pulse tracking in photonic crystal devices by near-field microscopy*
- 12:15 **Contributed:** Femius Koenderink, Swiss Federal Institute of Technology, *Near-field control of resonances and emission in photonic crystals*
- 12:30 **Contributed:** Cefé Lopez, Instituto de Ciencia de Materiales de Madrid, *Zn and ZnO opals for PBG applications*
- 12:45 **Contributed:** Tochihiko Fukamachi, Tsukuba University, *Dispersion compensation in 40-Gb/s optical transmission by using coupled-cavity-type photonic crystals*
- 13:00 **Contributed:** Redouane Katouf, Tsukuba University, *Ultra-fast optical switch using 1D polymeric photonic crystals*
- 13:15 **Contributed:** Chul-Sik Kee, Advanced Photonics Research Institute, GIST, *Ultrafast all-optical control in photonic crystal cavities using nonlinear absorption*
- 13:30 Lunch and discussions

Afternoon Session Workshop on technology issues in photonic crystals

- 15:30 **Organisers:** Thomas F Krauss (St. Andrews), Wim Bogaerts (Ghent)
- Speakers:** Kuramochi (Notomi group, NTT), S. Noda (Kyoto), T. Baba (Yokohama), A. Scherer (Caltech), Y. Vlasov (IBM), W. Bogaerts, T. F. Krauss

Evening Session Chairperson: K. Busch

- 17:15 **Contributed:** Peter Markos, Slovak Academy of Sciences, *Intensity distribution of classical waves in random media*
- 17:30 **Invited:** Sergei Romanov, University College Cork, *Topology of gold nanoparticle distribution and optical properties of opal-based metal-dielectric photonic crystals*
- 18:00 **Contributed:** Maria Kotlyar, University of St. Andrews, *Ultra-short InP-based polarization rotator*
- 18:15 **Contributed:** Lucio Andreani, University of Pavia, *Dispersion of defect modes in silicon photonic crystal waveguides measured by attenuated total reflectance*
- 18:30 **Invited:** Kazuaki Sakoda, National Institute for Materials Science, *Selection rules for light scattering by localized eigenmodes of the Menger sponge fractal*

- 19:00 **Invited:** Stephen Hughes, NTT Basic Research Labs, *Understanding cavity-QED and disorder in planar photonic crystals: Exploiting our old friend the photon green function*
- 19:30 Best poster awards and closing remarks.
- 19:45 Dinner**

Poster Sessions & Abstracts

updated: 26 May 2005

Note: The poster sessions are listed below and begin at 15:30 Monday-Thursday. Posters should be removed by 22:00 so the room can be prepared for participants to display their posters for the next session at 7:00 the following day. Posters will be judged daily and the best four posters will be presented with awards at the end of the symposium on Friday, June 24.

Session A, Monday

1. [Mario Agio](#)
2. [A. R. Alija](#)
3. [G. Antonopoulos](#)
4. [Xianyu Ao](#)
5. [Solomon Assefa](#)
6. [Melanie Ayre](#)
7. [Mahmood Bagheri](#)
8. [Christiane Becker](#)
9. [Badhise Ben Bakir](#)
10. [Sarah Benchabane](#)
11. [Giacomo Benelli](#)
12. [Audrey Berrier 1, 2](#)
13. [Miguel Beruete](#)
14. [Rana Biswas](#)
15. [Alvaro Blanco](#)
16. [Christopher Blanford](#)
17. [Jordi Bonache](#)
18. [Peter Ingo Borel](#)
19. [Muriel Botev](#)
20. [Irfan Bulu](#)
21. [Humeyra Caglayan](#)
22. [Tun Cao](#)
23. [Filippo Capolino](#)
24. [David Cassagne](#)
25. [Hung-Chun Chang](#)
26. [Hong Chen](#)
27. [Bingying Cheng](#)
28. [Hyoung-Gyu Choi](#)
29. [Yong-Seok Choi](#)
30. [Il-Sug Chung](#)
31. [K. B. Chung](#)
32. [Alongkarn Chutinan](#)
33. [Thomas Crepin](#)
34. [Martin Cryan](#)
35. [Aurelien David](#)
36. [Anatoli Deleniv](#)
37. [Alessandro Della Villa](#)
38. [Sergio Di Finizio](#)
39. [Giacomo Donzelli](#)
40. [Frank Dulkeith](#)
41. [L. Andrea Dunbar](#)
42. [Nina Dziomkina](#)
43. [Iñigo Ederra](#)
44. [Ihab El-Kady](#)
45. [Gennadi Emelchenko](#)
46. [Rob Engelen](#)
47. [Tijmen G. Euser](#)
48. [Didier Felbacq 1, 2](#)
49. [Rolando Ferrini](#)
50. [James Fleming 1, 2](#)
51. [Lucia Florescu](#)
52. [Marian Florescu 1, 2](#)
53. [Eugen Foca](#)
54. [Stavroula Foteinopoulou](#)
55. [Bettina Friedel](#)
56. [Masayuki Fujita](#)
57. [Takashi Sato](#)

Session B, Tuesday

1. [Juan F. Galisteo-López](#)
2. [Javier Garcia de Abajo](#)
3. [Jaime Garcia Rupérez 1, 2, 3](#)
4. [Florencio Garcia-Santamaría](#)
5. [Torsten M. Geppert](#)
6. [Dario Gerace](#)
7. [Fabrizio Giorgis 1, 2](#)
8. [Mutlu Gokkavas](#)
9. [Jaime Gómez-Rivas](#)
10. [Akiko Gomyo](#)
11. [S. Greulich-Weber](#)
12. [Christian Grillet](#)
13. [Kaan Güven](#)
14. [Lars Hagedorn Frandsen](#)
15. [Andreas Hakansson](#)
16. [Yu Han](#)
17. [Masanori Hangyo](#)
18. [Helmut Heidrich 1, 2](#)
19. [Kevin Hennessy](#)
20. [Christian Hermann](#)
21. [Joachim Herrmann](#)
22. [Kai-Ming Ho 1, 2](#)
23. [Ying-Lung Ho](#)
24. [Herman Höglström](#)
25. [Noriaki Horiuchi 1, 2](#)
26. [Kazuhiko Hosomi](#)
27. [George Humbert](#)
28. [Kyu H. Hwang](#)
29. [Shin-ichiro Inoue](#)
30. [Teruya Ishihara 1, 2](#)
31. [Satoshi Iwamoto](#)
32. [Masanobu Iwanaga](#)
33. [Cécile Jamois](#)
34. [Heonsu Jeon 1, 2](#)
35. [Xunya Jiang](#)
36. [Fredrik Jonsson](#)
37. [Svetlana Kachan](#)
38. [Maria Kafesaki](#)
39. [Martin Kamp](#)
40. [Tim Karle](#)
41. [Toshio Katsuyama](#)
42. [Olga Kavtрева](#)
43. [Takayuki Kawasima](#)
44. [Chul-Sik Kee 1, 2](#)
45. [Abdelkrim Khelif](#)
46. [Jeff King 1, 2](#)
47. [Guk-Hyun Kim](#)
48. [Sangjin Kim](#)
49. [Sosho Kirihara](#)
50. [Hitoshi Kitagawa](#)
51. [Hideaki Kitahara](#)
52. [Yuri Kivshar](#)
53. [Abigail Kok](#)
54. [K. Kolodziejak](#)
55. [Maria Kotliar](#)
56. [J. Kroha](#)
57. [Wan Kuang](#)
58. [Laurens Kuipers](#)
59. [Eichi Kuramochi](#)
60. [Dmitry A. Kurdyukov](#)
61. [Yoichi Kurokawa](#)
62. [Soon-Hong Kwon](#)

Session C, Wednesday

1. [Maria Cristina Larciprete](#)
2. [Stephane Laurent](#)
3. [Andrei Lavrinenko](#)
4. [Luc Le Gratiet](#)
5. [Uriel Levy](#)
6. [Hongliang Li](#)
7. [Zhi-Yuan Li](#)
8. [Al Qun Liu 1, 2](#)
9. [Xiaohan Liu](#)
10. [Benoit Lombardet](#)
11. [Feng Luan](#)
12. [Barry Luther-Davies](#)
13. [Ivan Maksymov](#)
14. [Luis Martin-Moreno](#)
15. [Lucio Martinelli](#)
16. [L. F. Marsal](#)
17. [Brett Maune](#)
18. [Marc Maymo](#)
19. [Kelly McGroddy](#)
20. [S. J. McNab](#)
21. [Cedrik Meier](#)
22. [Hernán Miguez](#)
23. [Andrey Miroshnichenko](#)
24. [F. Miyamaru](#)
25. [Hideki Miyazaki](#)
26. [Hiroshi Miyazaki](#)
27. [Albert Molinos-Gómez](#)
28. [Stephen Moore](#)
29. [Esteban Moreno](#)
30. [Christopher Murray](#)
31. [Dietmar Nau](#)
32. [Delphine Neel](#)
33. [Ivan Nikolaev](#)
34. [Stephen O'Brien](#)
35. [Tetsuyuki Ochiai](#)
36. [Sang Soon Oh](#)
37. [Oskar Painter](#)
38. [Hae Yong Park](#)
39. [Wounghang Park](#)
40. [Michael Parker](#)
41. [Dorota Pawlak](#)
42. [Greg Pearce](#)
43. [Raluca-Sorina Penciu](#)
44. [Yan Pennec](#)
45. [Alexander Petrov](#)
46. [Alina Ponyavina](#)
47. [Pablo Altor Postigo](#)
48. [Pierre Pottier](#)
49. [Stephanie Pruzinsky](#)
50. [Charles Reinke 1, 2](#)
51. [Francesco Riboli](#)
52. [Ivan Richter](#)
53. [James Rinne 1, 2](#)
54. [P. J. Roberts](#)
55. [Franck Robin](#)
56. [Olivia Roche](#)
57. [Isabelle Rodriguez](#)
58. [Sergei Romanov](#)
59. [Javier Romero-Vivas](#)
60. [Matthieu Roussey](#)
61. [Michael Rybin](#)
62. [Wayne Williams](#)

Session D, Thursday

1. [Antoine Salomon](#)
2. [Jérôme Salvi](#)
3. [Pablo Sanchis 1, 2](#)
4. [José Sanchez-Dehesa 1, 2](#)
5. [Kei Sawada](#)
6. [Jörg Schilling](#)
7. [David Schuria](#)
8. [Letiza Sciscione](#)
9. [Jan Scrimgeour](#)
10. [Yusaburo Segawa](#)
11. [Lidija Sekaric](#)
12. [Michael Settle 1, 2](#)
13. [Ilya Shadrivov](#)
14. [Concita Sibilia](#)
15. [C. R. Simovski](#)
16. [Vyacheslav Stankevich](#)
17. [Ganapathi Subramania](#)
18. [Yoshimasa Sugimoto](#)
19. [Andrey Sukhorukov 1, 2](#)
20. [Shigeki Takahashi](#)
21. [Hiroyuki Takeda](#)
22. [Junichiro Takeda](#)
23. [Anne Talneau](#)
24. [Selin Hwee Gee Teo](#)
25. [N. Tetreault](#)
26. [R. Willem Tjerkstra](#)
27. [Lasha Tkeshelashvili](#)
28. [Masatochi Tokushima](#)
29. [Costanza Toninelli](#)
30. [Trifon Trifonov](#)
31. [Jun Ushida](#)
32. [Joris Van Campenhout](#)
33. [Rob van der Heijden](#)
34. [Cédric Vandembem](#)
35. [Yuri Vlasov](#)
36. [Jean Pol Vigneron](#)
37. [Elisabeth von Rhein](#)
38. [Rongzhou Wang](#)
39. [Yiquan Wang](#)
40. [Yoshinori Watanabe](#)
41. [Will Whelan-Curtin](#)
42. [Barbara Wild](#)
43. [Mike Wiltshire](#)
44. [Jeremy Witzenz](#)
45. [Léon A. Woldering](#)
46. [Lech Wosinski](#)
47. [Lijun Wu 1, 2](#)
48. [Sanshui Xiao](#)
49. [Yuan Xiaodong](#)
50. [Han Xiaoyun](#)
51. [Aimin Xing](#)
52. [Alejandro Yacomotti 1, 2, 3](#)
53. [H. Yamada](#)
54. [Noritsugu Yamamoto 1, 2](#)
55. [Jin-Kyu Yang](#)
56. [Alex Yulin](#)
57. [Remo Zaccaria](#)
58. [Javad Zarbakhsh](#)
59. [Daozhong Zhang](#)
60. [Xiangdong Zhang](#)
61. [Ziyang Zhang](#)
62. [Said Zouhdi](#)
63. [Jian Zi](#)